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EXAMINER

PARTHASARATHY, PRAMILA

ART UNIT

PAPER NUMBER

2136

DATE MAILED: 08/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/755,597

Applicant(s)

TUATINI, JEFFREY

Examiner

Pramila Parthasarathy

Art Unit

2136

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 April 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-60 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-60 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 4/29/2002.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____.

DETAILED ACTION

1. This action is in response to the application filed on April 29, 2002. Claims 1 – 60 were received for consideration. No preliminary amendments to the claims were filed. Claims 1 – 60 are currently being considered.

Information Disclosure Statement

2. An initialed and dated copy of Applicant's IDS form 1449 is attached to the Office action.

Claim Objections

3. Claims 18 and 49 are objected to because of the following informalities:

Claim 18 is missing a period at the end.

Claim 40 has two periods at the end.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-60 are rejected under 35 U.S.C. 102(e) as being anticipated by Bladow et al. (Patent Number 6,115,040).

Regarding Claim 1, Bladow teaches and describes a method in a computer system for an executing application to forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy component for communicating with the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), comprising:

instantiating a local messaging component able to communicate with each of the associated proxies; and for each of multiple remote clients (Abstract; Column 16 lines 1 – 50 and Column 18 lines 14 – 38),

receiving a request from the remote client that a specified service be provided (Fig.2 Column 6 line 33 – Column 7 line 45);

determining a first of the remote shared service providers that is able to provide the specified service (Column 13 lines 1 – 18 and Column 18 lines 14 – 65);

notifying the local messaging component to request the specified service from the first remote shared service provider (Column 19 line 21 – Column 20 line 39);

under control of the local messaging component, requesting the specified service from the first remote shared service provider on behalf of the remote client by, retrieving configuration information for the first remote shared service provider that identifies a first proxy component associated with the first remote shared service provider (Column 11 line 59 – Column 12 line 6 and Column 13 lines 26 – 52);

when the first proxy component is not already instantiated, instantiating the first proxy component (Column 16 lines 1 – 50 and Column 18 lines 14 – 38); and

sending a message to the first proxy component requesting that the first remote shared service provider provide the specified service (Column 8 lines 10 – 45 and Column 15 line 28 – Column 16 line 27);

receiving a response from the first remote shared service provider via the first proxy component (Column 8 line 10 – Column 9 line 55); and

notifying the remote client of the received response, so that a remote client can communicate with any of the remote shared service providers via an application with a local messaging component that interacts with proxy components associated with the remote shared service providers (Column 14 line 57 – Column 16 line 27).

Regarding Claim 26, Bladow teaches and describes a computer-readable medium whose contents cause a computing device to forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy component for communicating with

the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), by:

instantiating a local messaging component able to communicate with each of the associated proxies; and for each of multiple remote clients (Abstract; Column 16 lines 1 – 50 and Column 18 lines 14 – 38),

receiving a request from the remote client that a specified service be provided (Fig.2 Column 6 line 33 – Column 7 line 45);

notifying the local messaging component to request the specified service from a first remote shared service provider that is able to provide the specified service (Column 19 line 21 – Column 20 line 39);

under control of the local messaging component, requesting the specified service from the first remote shared service provider on behalf of the remote client by,

retrieving configuration information for the first remote shared service provider that identifies a first proxy component associated with the first remote shared service provider (Column 11 line 59 – Column 12 line 6 and Column 13 lines 26 – 52);

instantiating the first proxy component (Column 16 lines 1 – 50 and Column 18 lines 14 – 38); and

sending a message to the first proxy component requesting that the first proxy component notify the first remote shared service provider to provide the specified service (Column 8 lines 10 – 45 and Column 15 line 28 – Column 16 line 27);

receiving a response from the first remote shared service provider via the

first proxy component (Column 8 line 10 – Column 9 line 55); and

notifying the remote client of the received response (Column 8 line 10 – Column 9 line 55).

Regarding Claim 27, Bladow teaches and describes a computing device for executing an application able to forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy component for communicating with the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), comprising:

an application capable of, during execution, for each of multiple remote clients, receiving a request from the remote client that a specified service be provided (Fig.2 Column 6 line 33 – Column 7 line 45),

notifying a local messaging component that is able to communicate with each of the associated proxies to request the specified service from a first remote shared service provider that is able to provide the specified service (Column 19 line 21 – Column 20 line 39),

receiving a response from the first remote shared service provider via the first proxy component (Column 8 line 10 – Column 9 line 55), and

notifying the remote client of the received (Column 14 line 57 – Column 16 line 27); and

the local messaging component capable of, during execution, requesting from each of multiple first remote shared service providers a specified service on behalf of a

remote client by retrieving configuration information for the first remote shared service provider that identifies a first proxy component associated with the first remote shared service provider, by instantiating the first proxy component, and by sending a message to the first proxy component requesting that the first remote shared service provider provide the specified service (Abstract; Column 6 line 33 – Column 7 line 45; Column 11 line 59 – Column 12 line 6; Column 13 lines 26 – 52; Column 15 line 28 – Column 16 line 50 and Column 18 lines 14 – 38).

Regarding Claim 30, Bladow teaches and describes a method in a computer system for an executing application to forward messages that are received from remote clients to remote services via a local messaging service, each of the remote services having an associated proxy for communicating with the remote service (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), the method comprising:

for each of multiple of the remote clients, receiving a message from the remote client to be sent to one of the remote services (Fig.2 Column 6 line 33 – Column 7 line 45);

notifying the local messaging service to send the message to the remote service (Column 19 line 21 – Column 20 line 39);

under control of the local messaging service,

identifying the proxy associated with the remote service by retrieving information associated with the remote service (Column 11 line 59 – Column 12 line 6 and Column 13 lines 26 – 52); and

sending the message to the identified proxy for communication to the remote service (Column 8 lines 10 – 45 and Column 15 line 28 – Column 16 line 27);
receiving a response to the sent message from the remote service via the identified proxy (Column 8 line 10 – Column 9 line 55); and
sending the received response to the remote client (Column 8 line 10 – Column 9 line 55).

Regarding Claim 45, Bladow teaches and describes a computer-readable medium whose contents cause a computing device to send messages that are received from remote clients to remote services via a local messaging service, each of the remote services having an associated proxy for communicating with the remote service (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), by:

for each of multiple of the remote clients,
receiving a message from the remote client to be sent to one of the remote services (Fig.2 Column 6 line 33 – Column 7 line 45);
notifying the local messaging service to send the message to the remote service (Column 19 line 21 – Column 20 line 39);
under control of the local messaging service,
identifying the proxy associated with the remote service by receiving information associated with the remote service (Column 11 line 59 – Column 12 line 6 and Column 13 lines 26 – 52); and
sending the message to the identified proxy for communication to the

remote service (Column 8 lines 10 – 45 and Column 15 line 28 – Column 16 line 27);

receiving a response to the sent message from the remote service (Column 8 line 10 – Column 9 line 55); and

sending the received response to the remote client (Column 8 line 10 – Column 9 line 55).

Regarding Claim 48, Bladow teaches and describes a computing device for forwarding messages that are received from remote clients to remote services via a local messaging service, each of the remote services having an associated proxy for communicating with the remote service (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), comprising:

an application capable of, for each of multiple of the remote clients, receiving a message from the remote client to be sent to one of the remote services (Fig.2 Column 6 line 33 – Column 7 line 45),

notifying the local messaging service to send the message to the remote service (Column 19 line 21 – Column 20 line 39),

receiving a response to the sent message from the remote service (Column 8 line 10 – Column 9 line 55), and

sending the received response to the remote client (Column 8 line 10 – Column 9 line 55 and Column 14 line 57 – Column 16 line 27); and

the local messaging service capable of identifying the proxy associated with the remote service by retrieving information associated with the remote service and of

sending the message to the identified proxy for communication to the remote service (Abstract; Column 8 lines 10 – 45; Column 11 line 59 – Column 12 line 6; Column 13 lines 26 – 52 and Column 15 line 28 – Column 16 line 50).

Regarding Claim 49, Bladow teaches and describes a computer system for forwarding messages that are received from remote clients to remote services via a local messaging service, each of the remote services having an associated proxy for communicating with the remote service (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), comprising:

means for, for each of multiple of the remote clients, receiving a message from the remote client to be sent to one of the remote services,

notifying the local messaging service to send the message to the remote service (Column 19 line 21 – Column 20 line 39),

receiving a response to the sent message from the remote service, and sending the received response to the remote client (Fig.2 Column 6 line 33 – Column 7 line 45);
and

means for identifying the proxy associated with a remote service by receiving information associated with the remote service (Column 11 line 59 – Column 12 line 6 and Column 13 lines 26 – 52); and

sending a received message to the identified proxy for communication to the remote service (Column 8 line 10 – Column 9 line 55) and Column 15 line 28 – Column 16 line 27).

Regarding Claim 50, Bladow teaches and describes a method in a computer system for invoking functions of remote applications on behalf of remote clients, each of the remote applications having an associated proxy for communicating with the remote application (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), the method comprising:

for each of multiple of the remote clients,
receiving a request from the remote client to invoke a specified function of a remote application using at least one specified parameter value (Fig.2 Column 6 line 33 – Column 7 line 45);

retrieving information associated with the remote application that identifies the proxy associated with the remote application (Column 11 line 59 – Column 12 line 6 and Column 13 lines 26 – 52);

when a copy of the identified proxy has not already been instantiated,
instantiating a copy of the identified proxy (Column 16 lines 1 – 50 and Column 18 lines 14 – 38);

notifying the identified proxy copy of the specified function and the specified parameter values (Column 19 line 21 – Column 20 line 39);

under control of the identified proxy copy, invoking the specified function of the remote application using the specified parameter values (Column 11 line 59 – Column 12 line 6 and Column 13 lines 26 – 52);

receiving a response from the invoking of the specified function (Column 6 line 33 – Column 7 line 45 and Column 8 line 10 – Column 9 line 55); and

providing the response to the remote client (Column 8 line 10 – Column 9 line 55).

Regarding Claim 59, Bladow teaches and describes a computer-readable medium whose contents cause a computing device to invoke functions of remote applications on behalf of remote clients, each of the remote applications having an associated proxy for communicating with the remote application (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), by:

for each of multiple of the remote clients,
receiving a request from the remote client to invoke a specified function of a remote application (Fig.2 Column 6 line 33 – Column 7 line 45);
retrieving information associated with the remote application that identifies the proxy associated with the remote application (Column 11 line 59 – Column 12 line 6 and Column 13 lines 26 – 52);
when a copy of the identified proxy has not already been instantiated, instantiating a copy of the identified proxy;
notifying the identified proxy copy of the specified function (Column 19 line 21 – Column 20 line 39);
under control of the identified proxy copy, invoking the specified function of the remote application (Column 11 line 59 – Column 12 line 6 and Column 13 lines 26 – 52);

receiving a response from the invoking of the specified function (Column 6 line 33 – Column 7 line 45 and Column 8 line 10 – Column 9 line 55); and
providing the response to the remote client (Column 8 line 10 – Column 9 line 55).

Regarding Claim 60, Bladow teaches and describes a computing device for invoking functions of remote applications on behalf of remote clients, each of the remote applications having an associated proxy for communicating with the remote application (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), comprising:

an application capable of, for each of multiple of the remote clients, receiving a request from the remote client to invoke a specified function of a remote application using any specified parameter values (Fig.2 Column 6 line 33 – Column 7 line 45),

retrieving information associated with the remote application that identifies the proxy associated with the remote application (Column 11 line 59 – Column 12 line 6 and Column 13 lines 26 – 52),

instantiating a copy of the identified proxy, notifying the identified proxy copy of the specified function and the specified parameter values (Abstract; Column 16 lines 1 – 50 and Column 18 lines 14 – 38),

receiving a response from the invoking of the specified function, and providing the response to the remote client (Column 11 line 59 – Column 12 line 6 and Column 13 lines 26 – 52); and

multiple identified proxy copies each capable of invoking a specified function

of a remote application using any specified parameter values (Column 6 line 33 – Column 7 line 45 and Column 8 line 10 – Column 9 line 55).

Claims 2 and 31 are rejected as applied above in rejecting claims 1 and 30. Furthermore, Bladow teaches and describes a method in a computer system for an executing application to forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy component for communicating with the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), including, under control of each of the first proxy components:

receiving the sent message from the local messaging component (Column 14 line 57 – Column 16 line 27);

requesting the first remote shared service provider to provide the specified service (Column 6 line 33 – Column 7 line 45; Column 11 line 59 – Column 12 line 6 and Column 13 lines 26 – 52);

receiving a response from the first remote shared service provider (Column 8 line 10 – Column 16 line 27); and

sending the received response to the local messaging component (Column 14 line 57 – Column 16 line 27).

Claims 4, 32 and 51 are rejected as applied above in rejecting claims 1, 30 and 50. Furthermore, Bladow teaches and describes a method in a computer system for an

executing application to forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy component for communicating with the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), wherein each of the first remote shared service

providers have multiple associated proxy components each for communicating with the first remote shared service provider to request distinct services provided by the first remote shared service provider, wherein the notifying of the local messaging component identifies a name of the specified service, and wherein the identifying of the first proxy component from the received configuration information is based at least in part on the identified name of the specified service (Column 8 lines 10 – Column 9 line 34).

Claim 5 is rejected as applied above in rejecting claim 1. Furthermore, Bladow teaches and describes a method in a computer system for an executing application to forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy component for communicating with the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), wherein the local messaging component and each of the first proxy components are software modules, and wherein the instantiating of the components includes executing the software modules (Abstract and Column 6 lines 33 – 57).

Claims 6, 33 and 52 are rejected as applied above in rejecting claims 1, 30 and 50. Furthermore, Bladow teaches and describes a method in a computer system for an executing application to forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy component for communicating with the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), wherein the local messaging component and each of the first proxy components are instances of object classes, and wherein the instantiating of the components includes creating the instances (Column 7 lines 1 – 21 and Column 21 lines 10 – 37).

Claim 9 is rejected as applied above in rejecting claim 1. Furthermore, Bladow teaches and describes a method in a computer system for an executing application to forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy component for communicating with the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), wherein the configuration information is retrieved from storage via a directory service using a unique name of the first remote shared service provider (Column 3 lines 47 – 57; Column 11 line 59 – Column 12 line 6 and Column 13 lines 26 – 52).

Claim 11 is rejected as applied above in rejecting claim 1. Furthermore, Bladow teaches and describes a method in a computer system for an executing application to forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy component for communicating with the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), wherein the retrieved configuration information includes initialization information for each of the first proxy components, and wherein the instantiating of each of the first proxy components includes providing the initialization information to that first proxy component for use as part of its initialization (Column 16 line 28 – Column 17 line 37).

Claim 12 is rejected as applied above in rejecting claim 1. Furthermore, Bladow teaches and describes a method in a computer system for an executing application to forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy component for communicating with the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), wherein the notifying to request the specified service from the first remote shared service provider includes supplying a message to be sent to the first remote shared service provider, and wherein the message sent to the first proxy component is the supplied message (Column 8 line 28 – Column 9 line 34).

Claim 13 and 35 are rejected as applied above in rejecting claims 1 and 30. Furthermore, Bladow teaches and describes a method in a computer system for an executing application to forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy component for communicating with the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), wherein the notifying to request the specified service from the first remote shared service provider includes supplying a message to be sent to the first remote shared service provider, and wherein the message sent to the first proxy component is a version of the supplied message that is transformed under the control of the local messaging component before the sending (Column 9 lines 15 – 34).

Claims 14, 28, 36 and 54 are rejected as applied above in rejecting claims 1, 27, 30 and 50. Furthermore, Bladow teaches and describes a method in a computer system for an executing application to forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy component for communicating with the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), wherein the executing application includes an action handler component that receives the requests from the remote clients and notifies the local messaging component to request the specified services (Fig.3 Column 7 lines 1 – 21 and Column 9 lines 16 – 25).

Claim 22 is rejected as applied above in rejecting claim 1. Furthermore, Bladow teaches and describes a method in a computer system for an executing application to forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy component for communicating with the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), wherein the determining of the first of the remote shared service providers that is able to provide the specified service is based on an indication of the first remote shared service provider that is included in the request received from the remote client (Column 6 line 33 – Column 7 line 45).

Claims 23 and 44 are rejected as applied above in rejecting claims 1 and 30. Furthermore, Bladow teaches and describes a method in a computer system for an executing application to forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy component for communicating with the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), wherein the executing application includes multiple action handler components each for responding to requests from external clients with responses generated in a format used by the action handler component (Column 21 line 53 – Column 22 line 59).

Claim 25 is rejected as applied above in rejecting claim 1. Furthermore, Bladow teaches and describes a method in a computer system for an executing application to

forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy component for communicating with the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), wherein the executing application and the remote shared service providers are part of a single intranet, and wherein the remote clients are located outside of the intranet (Column 14 line 44 – Column 15 line 48).

Claim 3 is rejected as applied above in rejecting claim 2. Furthermore, Bladow teaches and describes a method in a computer system for an executing application to forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy component for communicating with the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), including, under control of each of the first remote shared service providers:

- receiving the request from the first proxy component to provide the specified service (Column 11 line 59 – Column 12 line 6 and Column 13 lines 26 – 52);

- performing processing associated with the specified service, the processing generating a response (Column 15 lines 28 – 65 and Column 19 line 21 – Column 20 line 52); and

- sending the generated response to the first proxy component (Column 14 line 57 – Column 16 line 27).

Claim 7 is rejected as applied above in rejecting claim 6. Furthermore, Bladow teaches and describes a method in a computer system for an executing application to forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy component for communicating with the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), wherein the notifying of the local messaging invoking an interface method of the local messaging component includes instance (Column 21 lines 10 – 37 and column 23 lines 18 – 37).

Claims 8 and 34 are rejected as applied above in rejecting claims 6 and 33. Furthermore, Bladow teaches and describes a method in a computer system for an executing application to forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy component for communicating with the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), wherein the sending of the message to the first proxy component includes invoking an interface method of the first proxy component instance (Column 8 lines 10 – 45).

Claim 10 is rejected as applied above in rejecting claim 9. Furthermore, Bladow teaches and describes a method in a computer system for an executing application to forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy

component for communicating with the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), including storing the configuration information using the directory service before the retrieving (Column 11 line 59 – Column 12 line 6).

Claims 15, 37 and 55 are rejected as applied above in rejecting claims 14, 36 and 54. Furthermore, Bladow teaches and describes a method in a computer system for an executing application to forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy component for communicating with the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), wherein the executing application has mechanisms for including multiple action handler components, multiple view handler components and multiple translator components, but includes only the local messaging component and the action handler component (Column 21 line 53 – Column 22 line 59).

Claims 17, 29, 39 and 56 are rejected as applied above in rejecting claims 14, 27, 36 and 54. Furthermore, Bladow teaches and describes a method in a computer system for an executing application to forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy component for communicating with the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39),

wherein the executing application includes at least one view handler component for transforming received responses into formats compatible with the remote clients before the notifying of the remote clients of the received responses (Column 5 line 58 – Column 6 line 7 and Column 9 lines 16 – 34).

Claims 19, 41 and 57 are rejected as applied above in rejecting claims 14, 36 and 54. Furthermore, Bladow teaches and describes a method in a computer system for an executing application to forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy component for communicating with the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), wherein the executing application includes at least one translator component that transforms received requests from remote clients into a format compatible with the action handler component before supplying the received requests to the action handler component (Column 5 line 58 – Column 6 line 7 and Column 9 lines 16 – 34).

Claims 20 and 42 are rejected as applied above in rejecting claims 14 and 36. Furthermore, Bladow teaches and describes a method in a computer system for an executing application to forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy component for communicating with the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), wherein the

included action handler component notifies the local messaging component to request specified services from remote shared service providers only on behalf of requests received from remote clients, and wherein the executing application includes other action handler components that each notify the local messaging component to request specified services from remote shared service providers on their own behalf (Column 5 line 58 – Column 6 line 7 and Column 9 lines 16 – 34).

Claim 21 and 43 are rejected as applied above in rejecting claims 14 and 36. Furthermore, Bladow teaches and describes a method in a computer system for an executing application to forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy component for communicating with the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), including verifying authorization of a remote client to have a specified service be provided by a remote shared service provider before the notifying of the local messaging component to request the specified service (Column 5 line 58 – Column 6 line 7 and Column 9 lines 16 – 34).

Claim 24 is rejected as applied above in rejecting claim 23. Furthermore, Bladow teaches and describes a method in a computer system for an executing application to forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy

component for communicating with the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), wherein the executing application includes multiple view handler components each for transforming generated responses in formats used by action handler components into formats compatible with external clients (Column 21 line 53 – Column 22 line 59).

Claim 53 is rejected as applied above in rejecting claim 52. Furthermore, Bladow teaches and describes a method in a computer system for an executing application to forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy component for communicating with the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), wherein the notifying of an identified proxy copy of a specified function and specified parameter value includes an interface method of the proxy copy (Column 8 line 10 – Column 9 line 34).

Claim 58 is rejected as applied above in rejecting claim 54. Furthermore, Bladow teaches and describes a method in a computer system for an executing application to forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy component for communicating with the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), including verifying authorization for a

remote client before the notifying of the identified proxy copy (Column 8 line 10 – Column 10 line 20).

Claims 16 and 38 are rejected as applied above in rejecting claims 15 and 37. Furthermore, Bladow teaches and describes a method in a computer system for an executing application to forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy component for communicating with the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), wherein the action handler component notifies the local messaging component to request specified services from remote shared service providers only on behalf of requests received from remote clients (Column 19 line 21 – Column 20 line 39 and Column 21 line 53 – Column 22 line 59).

Claims 18 and 40 is rejected as applied above in rejecting claims 17 and 39. Furthermore, Bladow teaches and describes a method in a computer system for an executing application to forward requests for services that are received from remote clients to remote shared service providers, each remote shared service provider having an associated proxy component for communicating with the remote shared service provider (Fig. 1-3, 8-11 and Column 5 line 58 – Column 20 line 39), wherein the view handler components perform the notifying of the remote clients of the received responses (Column 9 lines 16 – 34 and Column 14 line 57 – Column 16 line 27).

Conclusion

6. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks, Washington, D.C. 20231 **or**
faxed to: (703) 872-9306 for all formal communications.

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Fourth Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pramila Parthasarathy whose telephone number is 703-305-8912. The examiner can normally be reached on 8:00a.m. To 5:00p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 703-305-9648. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Pramila Parthasarathy
Patent Examiner
703-305-8912
August 03, 2004

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